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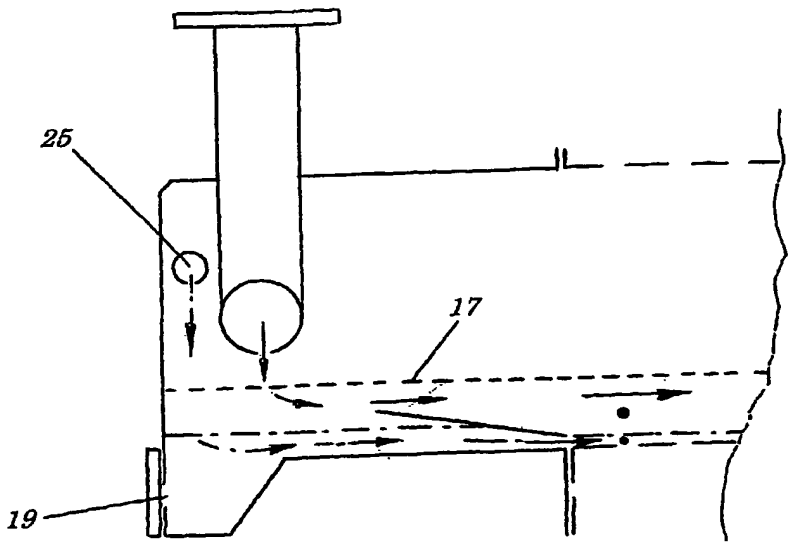
(54) Title: COOLING DEVICE FOR END-BOX OF MERCURY CATHODE CHLOR-ALKALI CELLS



(57) Abstract: The invention describes heat exchange devices for dry-type inlet end-boxes of mercury cathode chlor-alkali electrolysis cells. The devices increase the heat exchange between recycled mercury and feed brine with the purpose of reducing the temperature of mercury to a substantial extent. The devices consist of a first element directed to subdivide the mercury flow into a fine and a stable dispersion of rivulets and droplets and of a second element capable of increasing the brine level to allow the prolonged contact thereof with mercury. The decrease of mercury temperature below the critical value of 90-95 °C determines an advantageous duration improvement of the end-box internal lining.

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